



PATENT APPLICATION- *IFW*

IN THE U.S. PATENT AND TRADEMARK OFFICE

February 12, 2008

Applicants: Hideki MISAWA et al

For: MAGNETIC MIGRATION AND REVERSAL DISPLAY PANEL AND
MAGNETIC MIGRATION AND REVERSAL DISPLAY METHOD

Serial No.: 10/573 188

Group: 1756

Confirmation No.: 9352

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Atty. Docket No.: 4700.P0325US

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

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The pending Filing Receipt contains an error.

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Respectfully submitted,

TFC/smd

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
10/573,188	03/22/2006	1756	900	4700.P0325US	45	5

CONFIRMATION NO. 9352

23474

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Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

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Assignment For Published Patent Application

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Power of Attorney: The patent practitioners associated with Customer Number 23474**Domestic Priority data as claimed by applicant**

This application is a 371 of PCT/JP04/04625 03/31/2004

Foreign Applications

JAPAN 2003-346871 10/06/2004 2003
JAPAN 2003-373778 10/31/2003

If Required, Foreign Filing License Granted: 01/30/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 10/573,188**

Projected Publication Date: 05/08/2008**Non-Publication Request:** No

Early Publication Request: No
Title

Magnetic Migration and Reversal Display Panel and Magnetic Migration and Reversal Display
Method

Preliminary Class

430

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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訂正版

(19) 世界知的所有権機関
国際事務局



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PCT

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G09F 9/37, 19/02, B43L 1/00

G02F 1/17,

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(21) 国際出願番号: PCT/JP2004/004625

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特願 2003-346871 2003 年 10 月 6 日 (06.10.2003) JP
特願 2003-373778 2003 年 10 月 31 日 (31.10.2003) JP

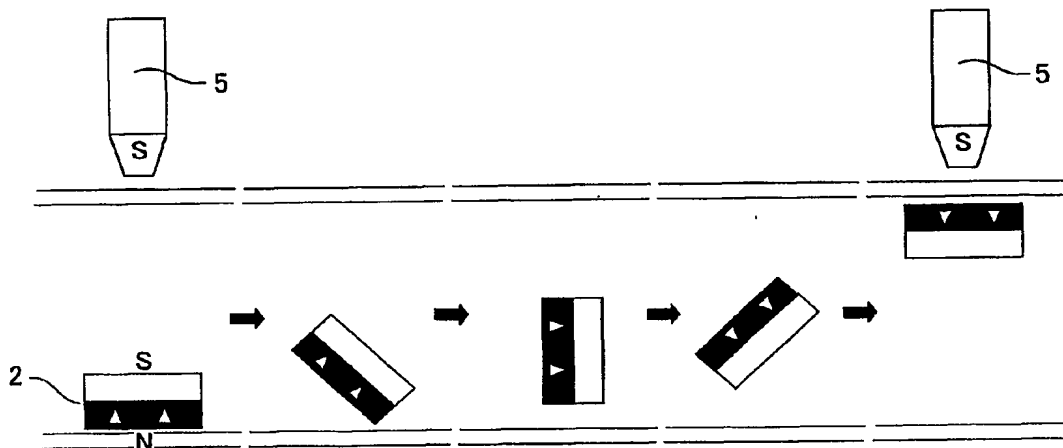
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(54) Title: MAGNETOPHORETIC REVERSAL DISPLY PANEL AND MAGNETOPHORETIC REVERSAL DISPLY METHOD

(54) 発明の名称: 磁気泳動反転表示パネルおよび磁気泳動反転表示方法



(57) Abstract: In a magnetic display panel varying the display by means of a magnet, a multicolor display panel capable of magnetically displaying three colors, i.e. two colors in addition to the background, is obtained. The magnetophoretic reversal display panel includes a dispersion liquid where micromagnets having different color of magnetic pole are dispersed into a dispersion medium containing a coloring material. A handwriting representing two display colors is obtained by selecting a specified magnetic pole at a handwriting part, causing magnetophoresis or magnetophoresis/reversal of the micromagnets in the dispersion liquid from the surface side, and displaying the color tone of a specified surface of the micromagnets. Subsequently, a magnetic field of the opposite magnetic pole is applied, from the same surface, to the micromagnets constituting the handwriting h indicating the color tone of the specified surface thus varying the color tone of the handwriting without varying the state thereof.

(57) 要約: 磁石により表示を変化させる磁気表示パネルにおいて、背景以外に 2 色の表示、つまり 3 色の磁気表示を行うことができる多色表示パネルを得られる。少なくとも、着色材を含有する分散媒中に磁極の色が異なる微小磁石を分散した分散液体を内

[続葉有]

Declaration and Power of Attorney For Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書



下記の氏名の発明者として、私は以下の通り宣言します。

As a below named inventor, I hereby declare that:

私の住所、私書箱、国籍は下記の私の氏名の後に記載された通りです。

My residence, post office address and citizenship are as stated next to my name.

下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者（下記の氏名が一つの場合）もしくは最初かつ共同発明者であると（下記の名称が複数の場合）信じています。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

MAGNETIC MIGRATION AND REVERSAL
DISPLAY PANEL AND MAGNETIC MIGRATION
AND REVERSAL DISPLAY METHOD

上記発明の明細書（下記の欄でx印がついていない場合は、本書に添付）は、

the specification of which is attached hereto unless the following box is checked:

☐ 月 日に提出され、米国出願番号または特許協定条約国際出願番号を _____ とし、
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☒ was filed on March 31, 2004
as United States Application Number or
PCT International Application Number
PCT/JP2004/004625 and was amended on _____
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私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容を理解していることをここに表明します。

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Prior Foreign Application(s)

外国での先行出願 JP Pat.Appl.
No. 2003-346871

Japan

(Number) JP Pat.Appl. (Country)

(番号)

(国名)

No. 2003-373778

Japan

(Number)

(Country)

(番号)

(国名)

私と、第35編米国法典119条(e)項に基づいて下記の米
国特許出願規定に記載された権利をここに主張いたします。

(Application No.)

(出願番号)

(Filing Date)

(出願日)

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第1項又は特許協力条約で規定された方法で先行する米国特
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以降で本出願書の日本国内または特許協力条約国際提出日ま
での期間中に入手された、連邦規則法典第37編1条56項
で定義された特許資格の有無に関する重要な情報について開
示義務があることを認識しています。

(Application No.)

(出願番号)

(Filing Date)

(出願日)

(Application No.)

(出願番号)

(Filing Date)

(出願日)

私は、私自身の知識に基づいて本宣言書中で私が行なう表
明が真実であり、かつ私の入手した情報と私の信じているこ
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く宣誓を致します。

I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed

優先権主張なし

October 6, 2003

(Day/Month/Year Filed)

(出願年月日)

October 31, 2003

(Day/Month/Year Filed)

(出願年月日)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.)

(出願番号)

(Filing Date)

(出願日)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of application.

(Status: Patented, Pending, Abandoned)

(現況: 特許許可済、係属中、放棄済)

(Status: Patented, Pending, Abandoned)

(現況: 特許許可済、係属中、放棄済)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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委任状： 私は下記の発明者として、本出願に関する一切の手続きを米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。(弁理士、または代理人の氏名及び登録番号を明記のこと)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

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 David G. Boutell, Reg. No. 25 072
 Ronald J. Tanis, Reg. No. 22 724
 Terryence F. Chapman, Reg. No. 32 549
 Mark L. Maki, Reg. No. 36 589

Donald J. Wallace, Reg. No. 43 977
 Sidney B. Williams, Jr., Reg. No. 24 949
 Liane L. Churney, Reg. No. 40 694
 Brian R. Tumm, Reg. No. 36 328
 Steven R. Thiel, Reg. No. 53 685

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唯一または第一発明者名

Full name of sole or first inventor:

Hideki MISAWA

発明者の署名

日付

Inventor's signature

Date March 9,
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Full name of second joint inventor, if any

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(第三以降の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)

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第三共同発明者の署名 日付	Third joint inventor's signature Date <i>Shinichi Murakata</i> March 9, 2006
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国籍	Citizenship Japan
郵便の宛先	Post Office Address c/o Kabushiki Kaisha Pilot Corporation, 4-3, Nishiyahata 1-chome, Hiratsuka-shi, Kanagawa 254-8585, Japan
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国籍	Citizenship Japan
郵便の宛先	Post Office Address c/o Kabushiki Kaisha Pilot Corporation, 4-3, Nishiyahata 1-chome, Hiratsuka-shi, Kanagawa 254-8585, Japan
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第六の共同発明者の氏名 (該当する場合)	Full name of sixth joint inventor(if any) Morio SATO
第六共同発明者の署名 日付	Sixth joint inventor's signature Date <i>Morio Sato</i> March 9, 2006
住所	Residence Fujisawa-shi, Kanagawa, Japan
国籍	Citizenship Japan
郵便の宛先	Post Office Address c/o Kabushiki Kaisha Pilot Corporation, 4-3, Nishiyahata 1-chome, Hiratsuka-shi, Kanagawa 254-8585, Japan

[] Additional inventors are being named on the one supplemental additional inventor(s) sheet.

[X] This Declaration ends with this page.